

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002353**Date Inspected:** 30-Dec-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** OBG 7BW, OBG 8AW, OBG 8AE, Ship #17**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Ship # 17

Photo-document components aboard ship which consisted of but not limited to: Cross Beams 1, 2 & 3, Lifts 1-4 East and West also Suspender Brackets, Bikeway Cantilever Brackets and Counterweights and Sea Fasteners as well as areas where softeners were not installed and areas where dross and steel weld residues were left to which would potentially cause "Rust Staining" on Finish coated surfaces.

OBG 7BW

Performed cursory visual inspection of repairs of undercoat on internal surfaces in floor areas. Some areas were still in process of amendment such as bolt holes and minor touch up operations. External "Mist" coated surfaces were masked prior to application of Interfine 979 additional full Finish coat still to be applied after Trial Assembly operations. Transport Shirley's beneath segment for removal from paint shop.

OBG 8AE

Performed cursory visual inspection of repairs of undercoat on internal surfaces in floor areas. Some areas were still in process of amendment such as bolt holes and minor touch up operations. External "Mist" coated surfaces were masked prior to application of Interfine 979 additional full Finish coat still to be applied after Trial Assembly operations. Also ZPMC abrasive blasted base metal surfaces which were previously obstructed by support pedestals and applied Interzinc 22 to these areas on the Bottom Plate surfaces.

OBG 8AW

SOURCE INSPECTION REPORT

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Observed in process application of Interzinc 22 undercoat to internal "U" Rib Stiffener areas and Upper Chevron Assemblies. Performed a cursory external visual inspection of undercoated surfaces and identified areas of holidays and exposed base metal which required amendment and inquired with ABF Sun Xiong if these areas were identified by ABF and scheduled for repairs.

Office

Discussed with Caltrans Engineer and ASMR as to the appropriate documentation and reporting language for describing excessive use of Interzinc 52 for repairs to damaged areas without proper change order or written directive. Also attend to review and signing of project documentation. Also attend to more ceremonial display as T-shirts handed out after lunch to ZPMC personnel.

Sub-Assemblies

Diaphragm faying surfaces/ bolted connection for the X3P Plates were abrasive blasted to base metal and an SSPC SP-10 condition and Interzinc 22 undercoat applied to OBG 9EW Panel Point # 82 & OBG 9DW Panel Point # 85 components.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

Summary of Conversations:

No relevant conversations on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Peterson,Art	QA Reviewer
